# Bryan's Report Card on Water Quality

To ensure the safest tap water, the U.S. Environmental Protection Agency prescribes set standards requiring utilities to monitor regularly for specific substances in the water they produce. An independent laboratory certified by the EPA and the State of Texas performs testing as required. The tables below show all constituents for which the city tests and the resulting chemical analysis for each as it compares to set standards set forth by the EPA as safe drinking water.

**Availability of Unregulated Contaminant Rule Data (UCMR):**

We participated in gathering data under the UCMR in order to assist EPA in determining the occurrence of possible drinking water contaminants. If any unregulated contaminants were detected, they are shown in the tables elsewhere in the report. The data may also be found on EPA's website at http://www.epa.gov/safewater/data/ncod.html or you can call the Sate Drinking Water Hotline at 1-800-426-4791.

**Source Water Assessment:**

Texas Commission on Environmental Quality (TCEQ) completed an assessment of your source water and results indicate that some of our sources are susceptible to a certain contaminant. The sampling requirement for your water system is based on this susceptibility and previous sample data. Any detection of this contaminant will be found in this Consumer Confidence report. For more information on source water assessments and protection efforts at our system contact Charles Rhodes @ 979-209-5900.

**Violations:**

| Type | Health Effects | Duration | Explanation | Steps to Correct |
|---|---|---|---|---|
| none | none | none | none | none |

## Definitions:

***Action Level -*** The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

***Maximum Contaminant Level (MCL) -*** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

***Maximum Contaminant Level Goal (MCLG) -*** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

***Maximum Residual Disinfectant Level (MRDL) -*** The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

***None Detected (ND) -*** Indicates substance was not detected at the reporting limit.

***Parts per Billion (PPB) -*** One part per billion or micrograms per liter.

***Parts per Million (PPM) -*** One part per million or milligrams per liter.

***pH -*** The practical pH scale extends from 0 (very acidic) to 14 (very alkaline) with 7 corresponding to neutral. Most natural waters fall within range of 4 to 9.

***Secondary Constituents -*** Constituents that are regulated by the State of Texas but not the Environmental Agency (EPA). The constituents are not causes for health concerns, but they may affect the appearance and taste of your water.

***Total Coliform -*** Bacteria used as indicators of microbial contamination of drinking water.

**Regulated at the Production Facilities**

| Constituent | MCL | Detected Levels *min max ave* | MCL Goal | Possible Sources of Substances |
|---|---|---|---|---|
| Arsenic | 10 ppb | < 2 ppb | 0 ppb | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes |
| Barium | 512 ppm | .103 ppm | 2 ppm | Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits |
| Fluoride | 4 ppm | .53 ppm | 4 ppm | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Mercury *(inorganic)* | 2 ppb | ND | 2 ppb | Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland |
| Nitrate *(as Nitrogen)* | 10 ppm | .32 ppm | 10 ppm | Erosion of natural deposits; Runoff from fertilizer use; Leaching from septic tanks; sewage |

**Regulated in the Distribution System**

| | | | | |
|---|---|---|---|---|
| Total Coliforms* | Presence in more than 5% of monthly samples | 0% 0% N/A | 0 | Naturally present in the environment |
| Total Trihalomethanes** | 80 ppb | 52.2 ppb | N/A | Byproducts of drinking water chlorination |

**Lead and Copper Results**

| Lead and Copper | 90th Percentile Values | Number of Sites Exceeding Action Level | MCL | MCL Goal | Possible Sources of Substances |
|---|---|---|---|---|---|
| Lead | 4.9 ppb | 2 | Action Level = 15 ppb | 0 | Erosion of natural deposits; Corrosion of household plumbing systems |
| Copper | .134 ppm | 0 | Action Level = 1.3 ppm | 1.3 ppm | Erosion of natural deposits; Corrosion of household plumbing systems; Leaching from wood preservatives |

**Disinfectant Residuals**

| Year | Constituent | Annual Average | Highest Average (quarterly) | Range of Detects (low-high) | MRDL | MCLG | Units | Source |
|---|---|---|---|---|---|---|---|---|
| 2005 | Chlorine Disinfectant | 1.78 | 1.92 | .51-5.00 | 4 | 0 | ppm | Disinfectant used to control microbes in drinking water |

**Secondary Constituents**

| Constituent | MCL | Maximum Detected Levels |
|---|---|---|
| Aluminum | .05-.2 ppm | .007 ppm |
| Calcium | Not Regulated | 3.2 ppm |
| Chloride | 250 ppm | 63.4 ppm |
| Sodium | Not Regulated | 244 ppm |
| Total Hardness | Not Regulated | 10.5 ppm |
| Total Alkalinity | Not Regulated | 466 ppm |
| Bicarbonate | Not Regulated | 449 ppm |
| Carbonate | Not Regulated | 17 ppm |
| Dissolved Solids | 500 ppm | 643 ppm |
| pH | 6.5-8.5 | 8.48 |

*The state allows monitoring for some constituents less than once a year because the amount of these constituents does not change frequently. The inorganic constituents and secondary constituents are based on tests conducted during the 2002 calendar year. Information for Coliforms is based on 2005 tests. Trihalomethane data is based on 2004 tests. Lead and Copper results are from 2003 tests.*

** During 2005, a total of 852 drinking samples were collected to be tested for Total Coliform bacteria. There were no positive samples for coliform bacteria.*

*** Total Trihalomethanes are regulated as a group which contains: Bromoform, Chloroform, Bromodichloromethane and Dibromochloromethane.*